| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|----------|------|-----------------|--|---------------------|---------|------------------|
| L1 | 0 | 342/820-822.pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/13 11:35 |
| L2 | 0 | 342/820.pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/13 11:35 |
| L3 | 0 | 342/822.pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/13 11:35 |
| L4 | 0 | 342/822.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/13 11:36 |
| L5 | 0 | 342/820.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/13 11:36 |
| L6 | 277 | 343/822.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/13 11:36 |
| L7 | 194 | 343/820.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/13 11:37 |

| L8 | 591 | 343/850.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/13 11:37 |
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| L9 | 227 | 343/829.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/13 11:37 |
| L10 | 1852 | 343/845-849.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/13 11:38 |
| L11 | 57 | (logarith\$5 or log-periodic) and grounding and "impedance matching" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/13 11:39 |
| L12 | 2919 | grounding and "impedance matching" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/13 11:39 |
| L13 | 26 | (6 or 7 or 8 or 9) and 12 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/13 11:43 |
| L14 | 2 | "5521607".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/13 11:46 |

| L15 | 2 | "4117491".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/13 11:47 |
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| L16 | 2 | "3765022".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/13 11:48 |
| L17 | 4113 | reflector and passive and ends | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/13 12:24 |
| L18 | 0 | (reflector near antenna) and passive and ends and (linera near array) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/13 12:25 |
| L19 | 19 | (reflector near antenna) and passive and ends and (linear near array) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/13 12:28 |
| L20 | 0 | (reflector near antenna) and (passive near ends) and (linear near array) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/13 12:28 |
| L21 | 9 | (passive near ends) and (linear near array) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/13 12:29 |

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| L22 | 365 | (passive near ends) and array | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/13 12:29 |
| L23 | 6 | (passive near ends) and array and liner | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/13 12:29 |
| S1 | 11 | ("3808599" "4257049" "4494121" " 4656482").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 18:08 |
| S2 | 15 | HFSWR | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 20:02 |
| S3 | 74769 | monopole and logarith\$5 and transmit\$4 and antenna and (impedance same matching) and switch\$3 (linear same array) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 18:10 |
| S4 | 4 | monopole and loga\$8 and transmit\$4 and antenna and (impedance same matching) and switch\$3 and (linear same array) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 18:12 |
| S5 | 197 | monopole and (loga\$8 period\$3) and transmit\$4 and antenna and (impedance same matching) and switch\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 18:12 |

| S6 | 197 | monopole and (loga\$8 or period\$3) and transmit\$4 and antenna and (impedance same matching) and switch\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 18:12 |
|-----|-----|--|--|----|-----|------------------|
| S7 | 131 | monopole and (loga\$8 or period\$3) and transmit\$4 and antenna and (impedance same matching) and switch\$3 and active | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 18:13 |
| 58 | 131 | monopole and (loga\$8 or period\$3) and transmit\$4 and antenna and (impedance same matching) and switch\$3 and active and switch\$5 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 18:13 |
| S9 | 84 | monopole and (loga\$8 or period\$3) and transmit\$4 and antenna and (impedance same matching) and switch\$3 and active and switch\$5 and passive | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 18:14 |
| S10 | 22 | monopole and (loga\$8 or period\$3) and transmit\$4 and antenna and (impedance same matching) and switch\$3 and active and switch\$5 and passive and (surface adj wave) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 18:15 |
| 511 | 22 | monopole and (loga\$8 or period\$3) and transmit\$4 and (antenna same array) and (impedance same matching) and switch\$3 and active and switch\$5 and passive and (surface adj wave) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 18:15 |
| S12 | 2 | HFSWR and ground\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 18:25 |

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| S13 | 22206 | (high same frequency same surface same wave) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 18:26 |
| S14 | 121 | (high same frequency same surface same wave) and system and (loga\$7 or period\$4) and (linear near array) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 18:26 |
| S15 | 53 | (high same frequency same surface same wave) and system and (loga\$7 or period\$4) and (linear near array) and ground\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 18:33 |
| S16 | 165 | 342/41.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 18:40 |
| S17 | 12 | 342/41.ccls. and (surface same wave) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 18:51 |
| S18 | 1 | 342/41.ccls. and (surface near wave) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 18:37 |
| S19 | 20252 | (surface near wave) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR . | OFF · | 2007/08/10 18:35 |

| S20 | 7 | 342/107.ccls. and (surface near | US-PGPUB; | OR | OFF | 2007/08/10 18:40 |
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| | • | wave) | USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | | | |
| S21 | 491 | 342/374.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 18:40 |
| S22 | 5 | 342/374.ccls. and (surface near wave) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 18:52 |
| S23 | 2 | (impedance near matching) and (ground\$3 near active) and (antenna near array) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 19:42 |
| S24 | 14 | (ground\$3 near active) and (antenna near array) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 18:45 |
| S25 | 3 | 342/41.ccls. and (antenna near array) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 18:51 |
| S26 | 291 | 342/374.ccls. and (antenna near array) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 18:52 |

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| S27 | 132 | 342/374.ccls. and (antenna near array) and ground\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; | OR | OFF | 2007/08/10 18:52 |
|-----|-----------|---|--|----|-----|------------------|
| S28 | 62 | 342/374.ccls. and (antenna near | DERWENT; IBM_TDB US-PGPUB; | OR | OFF | 2007/08/10 18:52 |
| 320 | 02 | array) and ground\$3 and impedance | USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | | | 2007/00/10 10:52 |
| S29 | 68 | 342/374.ccls. and (antenna near array) and ground\$3 and (impedance matching) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 18:55 |
| S30 | 66 | 342/374.ccls. and (antenna near array) and ground\$3 and (impedance matching) and switch\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 18:55 |
| S31 | 6 | 342/374.ccls. and (antenna near array) and ground\$3 and (impedance matching) and (switch\$3 near active) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 18:55 |
| S32 | 11294 | (switch\$4 same active same ground\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 19:43 |
| S33 | 2 | (switch\$4 adj active adj ground\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 19:43 |

| S34 | 3071 | switch\$3 and continuous\$3 and repeated\$3 and "linear array" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 19:49 |
|-----|----------|--|--|----|-----|------------------|
| S35 | 1 | (switch\$3 adj continuous\$3 adj repeated\$3) and "linear array" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 12:06 |
| S36 | 14526368 | (surface wave system) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/10 20:02 |
| S37 | 16 | "surface wave system" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 11:42 |
| S38 | 15719 | "surface wave " | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 11:43 |
| S39 | 15719 | "surface wave" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 11:43 |
| 540 | 29 | "surface wave radar" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 11:49 |

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|-----|------|---|--|----|-----|------------------|
| S41 | 2 | passive near end near antenna | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 12:27 |
| S42 | 818 | passive same end same antenna | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 12:28 |
| S43 | 44 | passive same "both ends" same antenna | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 12:28 |
| S44 | 0 | ground\$4 and active and antenna and element and (radial near semicircular) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 12:54 |
| S45 | 2501 | "impedance matching" and antenna and inductor and capacitor | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 12:55 |
| S46 | 92 | "impedance matching" and antenna and inductor and capacitor and ' "active element" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 12:59 |
| S47 | 0 | "impedance matching" and antenna and (inductor near "in series") and capacitor and "active element" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 12:58 |

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| S48 | 0 | "impedance matching" and antenna and (inductor near transmit\$4) and capacitor and "active element" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 12:58 |
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| S49 | 78 | "impedance matching" and antenna and inductor and capacitor and "active element" and transmit\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 12:59 |
| S50 | 59 | "impedance matching" and antenna and inductor and capacitor and "active element" and transmit\$4 and series | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 13:03 |
| S51 | 42 | "impedance matching" and antenna and inductor and capacitor and "active element" and transmit\$4 and series and parallel | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 13:06 |
| S52 | 10 | "impedance matching" and antenna and inductor and capacitor and "active element" and transmit\$4 and series and parallel and LC | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 14:44 |
| S53 | 2 | "impedance matching" and antenna and inductor and capacitor and "active element" and transmit\$4 and series and parallel and "LC circuit" and "matching circuit" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 14:10 |
| S54 | | ((inductor and capacitor) adj connect\$3 adj parallel) and matching and (transmit\$4 near series near inductor) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 14:46 |

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| S55 | 22 | ((inductor and capacitor) adj connect\$3 adj parallel) and "matching circuit" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 14:57 |
| S56 | 11 | LC and parallel and (transmit\$4 near connect\$3 near series) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 15:07 |
| S57 | 275 | "transmission line" near inductor | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 15:07 |
| S58 | 16 | "transmission line" near inductor and "LC circuit" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 15:07 |
| S59 | 0 | "passive element" near "at ends" near array | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 15:30 |
| S60 | 0 | "passive element" near ends near array | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 15:30 |
| S61 | 0 | passive near ends near array | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 15:32 |

| S62 | 0 | tarnsmit\$4 and ("frequency range" near MHz) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 15:32 |
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| S63 | 1669 | ("frequency range" near MHz) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 15:33 |
| S64 | 171 | ("frequency range" near MHz) and (transmit\$4 adj antenna) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 15:33 |
| S65 | 0 | ("frequency range" near MHz) and (transmit\$4 adj antenna) and "antenna height" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 15:33 |
| S66 | 171 | ("frequency range" near MHz) and (transmit\$4 adj antenna) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR . | OFF | 2007/08/11 15:34 |
| S67 | | ("frequency range" near MHz) and (transmit\$4 adj antenna) and "antenna height" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 15:34 |
| S68 | 29 | ("frequency range" near MHz) and (transmit\$4 adj antenna) and height | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR . | OFF | 2007/08/11 15:36 |

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| S69 | 1855 | "surface wave" and frequency and range and MHz | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 15:37 |
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| S70 | 682 | "surface wave" and "frequency range" and MHz | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 15:38 |
| S71 | 106 | "surface wave" and "frequency range" and "1 MHz" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 15:38 |
| S72 | 0 | "surface wave" and "frequency range" and "1 MHz" and (antenna adj height) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 15:40 |
| S73 | 0 | "5.0 to 5.7 MHz" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 15:45 |
| S74 | 10 | "antenna array" and "antenna height" and logarithm\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 15:55 |
| S75 | 0 | ("log-periodic" adj antenna) and (passive near elements near ends) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 15:57 |

| S76 | 27 | ("log-periodic" adj antenna) and end and passive | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 16:10 |
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| S77 | 0 | (passive near end) and "linear array antenna" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 16:11 |
| S78 | 5 | (passive near end) and "array antenna" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/08/11 16:11 |